

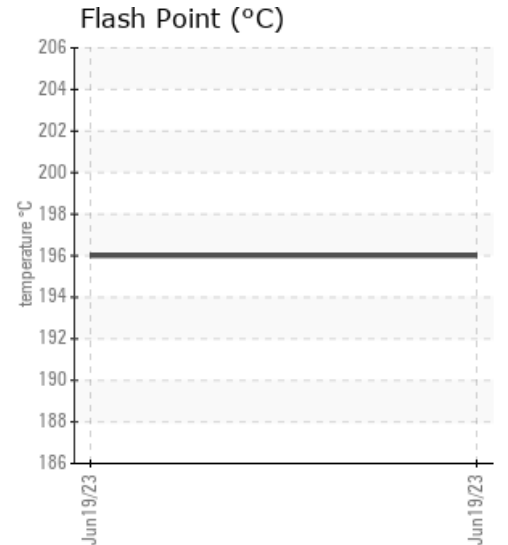
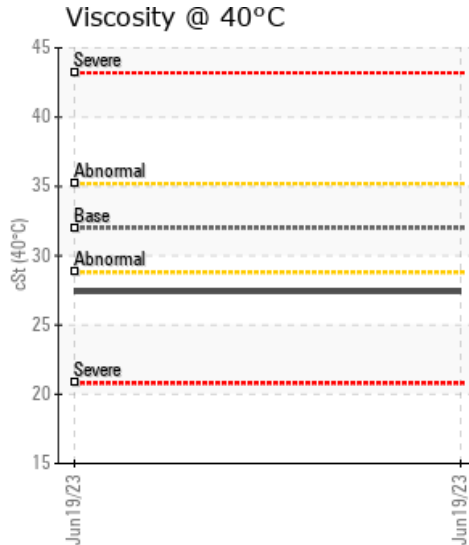
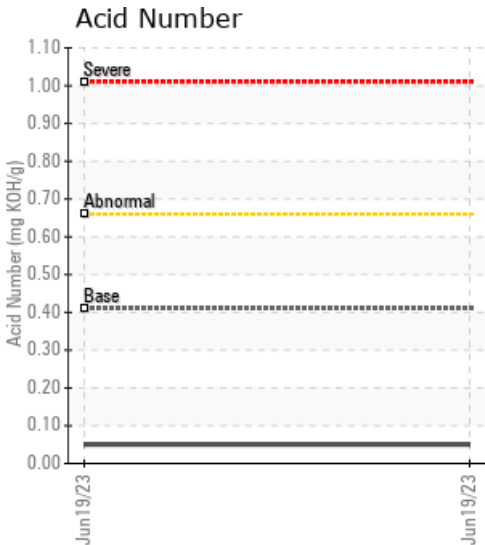
[BOYNE SMELTER] LINE 1/2

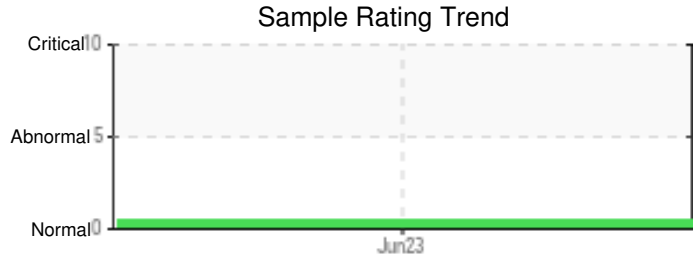
Customer:	System Information	Sample Information
BOYNE SMELTERS HANDLEY DR. BOYNE ISLAND, AUSTRALIA, 4680 Attn: ROBERT WOOD Tel: 079730211 E-Mail:	System Volume: 0 ltr Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: HEAT TRANSFER FLUID ISO 32 Make:	Lab No: 02574348 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 06/19/23 Received Date: 08/04/23 Completed: 08/08/23 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: The fluid is suitable for further service. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) HEAT TRANSFER FLUID ISO 32. Please confirm. Please specify the brand, type, and viscosity of the oil on your next sample.

Comments: Visc @ 40°C is abnormally low. All other fluid properties are in specification (unconfirmed).

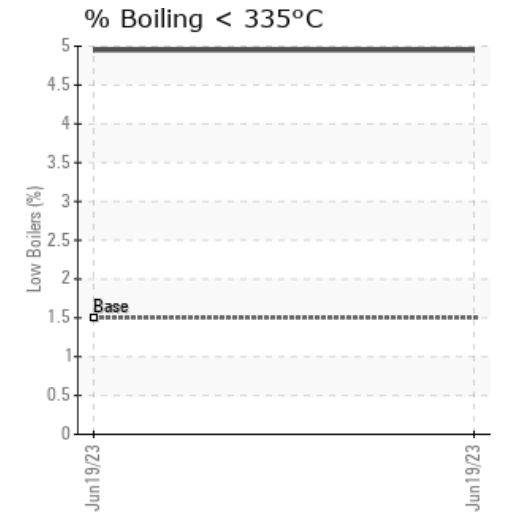
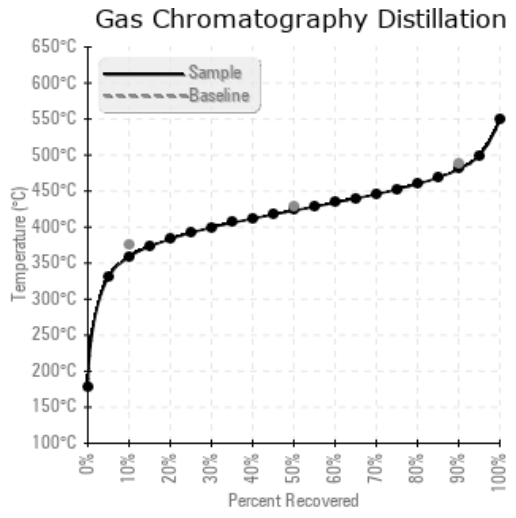
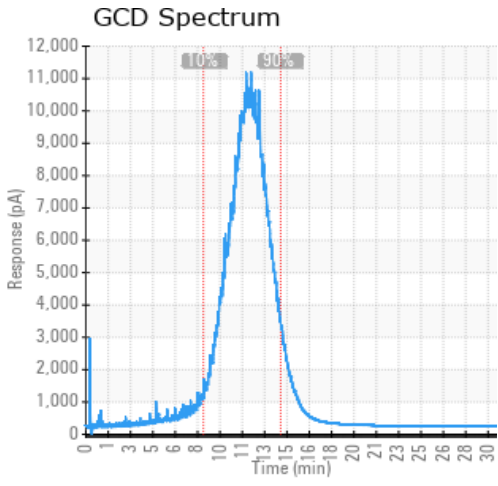
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/19/23	08/04/23	30.0y	near heater	385 / 196	19.4	27.4	0.05	0.038	678 / 359	793 / 423	896 / 480	4.95
Baseline Data				410 / 210		32	0.41		707 / 375	802 / 428	910 / 488	1.5





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc	
06/19/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1
Baseline Data			0	0						0			0	0					5					250	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.